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USPT	polyester and esterase	444	<u>L11</u>
USPT	polyesterase	0	<u>L10</u>
USPT,JPAB,EPAB,DWPI,TDBD	polyesterase	0	<u>L9</u>
USPT,JPAB,EPAB,DWPI,TDBD	11 near7 l2 near7 l3	33	<u>L8</u>
USPT,JPAB,EPAB,DWPI,TDBD	11 near17 l2 near17 l3	53	<u>L7</u>
USPT,JPAB,EPAB,DWPI,TDBD	11 near10 l2 near10 l3	44	<u>L6</u>
USPT,JPAB,EPAB,DWPI,TDBD	11 same l2 same l3	123	<u>L5</u>
USPT,JPAB,EPAB,DWPI,TDBD	11 and l2 and l3	1171	<u>L4</u>
USPT,JPAB,EPAB,DWPI,TDBD	ethylene glycol	123051	<u>L3</u>
USPT,JPAB,EPAB,DWPI,TDBD	formamide	40973	<u>L2</u>
USPT,JPAB,EPAB,DWPI,TDBD	dms0	38499	<u>L1</u>

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=> s polyesterase/cn

L1 0 POLYESTERASE/CN

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=> s polyesterase?

L2 1 POLYESTERASE?

=> d

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS
AN 1984:487041 CAPLUS
DN 101:87041
TI Suberin-grown Fusarium solani f. sp pisi generates a cutinase-like
esterase which depolymerizes the aliphatic components of suberin
AU Fernando, G.; Zimmerman, W.; Kolattukudy, P. E.
CS Inst. Biol. Chem., Washington State Univ., Pullman, WA, 99164, USA
SO Physiol. Plant Pathol. (1984), 24(2), 143-55

CODEN: PPPYBC; N: 0048-4059
DT Journal
LA English

=> d ab,bib

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2000 ACS
AB F. solani pisi Isolate T-8 was found to grow with suberin from potato tuber periderm as the sole C source. The extracellular fluid from such cultures catalyzed the hydrolysis of p-nitrophenyl butyrate and radioactive apple cutin. The major portion of this esterase was bound to the suberin-contg. mycelial mat from which the activity could be washed out with a 0.4% Triton X-100 soln. All of this esterase activity was contained in 2 isozymes which were purified by a passage of the Triton wash through QAE-Sephadex followed by ion-exchange chromatog. with SP-Sephadex. Both isozymes were homogeneous as judged by polyacrylamide gel electrophoresis with or without SDS. Each showed a mol. wt. of 23,000. Anal. of the aliph. components released by the esterase from suberin by combined gas-liq. chromatog./mass spectrometry showed that all classes of monomers were released by the esterase. The 2 enzymes were very similar in their catalytic properties and amino acid compn. to 2 isozymes of cutinase isolated from the extracellular fluid of the same fungus grown on apple cutin. The esterases had 1 disulfide bridge and no free SH group, similar to fungal cutinases. Ouchterlony double-diffusion analyses showed that the 2 esterases isolated from suberin-grown cells cross-reacted with complete fusion of the precipitin lines when tested with antibodies generated against the 2 cutinases generated by

cutin-grown

cells. Apparently, F. solani pisi generates extremely similar, if not identical, **polyesterases** to degrade cutin and suberin when these polymers constitute the sole C source.

AN 1984:487041 CAPLUS

DN 101:87041

TI Suberin-grown Fusarium solani f. sp pisi generates a cutinase-like esterase which depolymerizes the aliphatic components of suberin

AU Fernando, G.; Zimmerman, W.; Kolattukudy, P. E.

CS Inst. Biol. Chem., Washington State Univ., Pullman, WA, 99164, USA

SO Physiol. Plant Pathol. (1984), 24(2), 143-55

CODEN: PPPYBC; ISSN: 0048-4059

DT Journal

LA English

=> index bioscience, chemistry

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED

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COST IN U.S. DOLLARS

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=> s polyesterase?

```
      1  FILE BIOSIS
      1  FILE CABA
      1  FILE CAPLUS
      1  FILE CIN
34 FILES SEARCHED...
      1  FILE LIFESCI
      1  FILE INVESTEXT
79 FILES SEARCHED...
```

6 FILES HAVE ONE OR MORE ANSWERS, 80 FILES SEARCHED IN STNINDEX

L3 QUE POLYESTERASE? .

=> dup rem l3

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This L-number was created by another command that cannot be used with
the DUPLICATE command. Enter DISPLAY HISTORY at an arrow prompt (=>)
to see all L-numbers defined in this session.

=> d rank

```
F1      1  BIOSIS
F2      1  CABA
F3      1  CAPLUS
F4      1  CIN
F5      1  LIFESCI
F6      1  INVESTEXT
```

=> file f1-f6

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=> s 13

L4 6 L3

=> dup rem

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PROCESSING COMPLETED FOR L4

L5 3 DUP REM L4 (3 DUPLICATES REMOVED)

=> d 1-13 ab,bib

L5 ANSWER 1 OF 3 BIOSIS COPYRIGHT 2000 BIOSIS DUPLICATE 1
AB F. solani pisi isolated T-8 grows with suberin from potato tuber periderm as the sole source of C. The extracellular fluid from such cultures catalyzed the hydrolysis of p-nitrophenyl butyrate and radioactive apple cutin. The major portion of this esterase was bound to the suberin-containing mycelial mat from which the activity could be washed out with a 0.4% Triton X-100 solution. All of this esterase activity was contained in 2 isozymes which were purified by a passage of the Triton wash through QAE-Sephadex followed by ion exchange chromatography with SP-Sephadex. Both isozymes were homogeneous as judged by polyacrylamide gel electrophoresis with or without SDS [sodium dodecyl sulfate]. Each showed a MW of 23,000. Analysis of the aliphatic components released by the esterase from suberin by combined GLC/MS [mass spectrometry] showed that all classes of monomers were released by the esterase. The 2 enzymes were similar in their catalytic properties and amino acid composition to 2 isozymes of cutinase isolated from the extracellular fluid of the same fungus grown on apple cutin. The esterases had 1 disulfide bridge and no free SH group just as previously noted for fungal cutinases. Ouchterlony double diffusion analyses showed that the 2 esterases isolated from suberin-grown cells cross-reacted with complete fusion of the precipitin lines when tested with antibodies generated against the 2 cutinases generated by cutin-grown cells. F. solani pisi apparently generates extremely similar, if not identical, **polyesterases** to degrade cutin and suberin when these polymers constitute the sole C source.
AN 1984:318167 BIOSIS
DN BA78:54647
TI SUBERIN GROWN FUSARIUM-SOLANI-F-SP-PISI GENERATES A CUTINASE-LIKE ESTERASE
WHICH DE POLYMERIZES THE ALIPHATIC COMPONENTS OF SUBERIN.
AU FERNANDO G; ZIMMERMANN W; KOLATTUKUDY P E
CS INST. BIOL. CHEM., WASH. STATE UNIV., PULLMAN, WA 99164, USA.
SO PHYSIOL PLANT PATHOL, (1984) 24 (2), 143-156.
CODEN: PPPYBC. ISSN: 0048-4059.
FS BA; OLD
LA English

L5 ANSWER 2 OF 3 CIN COPYRIGHT 2000 ACS
AB Frekote FRP non-wax mold release for polyesters reportedly does not build up as wax does, significantly reducing mold cleaning. In addition, it does not interfere with painting or other final surface treatments. The release, which is a highly reactive organic resin, is applied to molds at room temperature and cures in seconds, said Frekote Inc.
AN 12(26):24266Q CIN
SO Plast. World, May 1983 (830500), 41(6), p. 86. ISSN: 0032-1273; CODEN: PLAWA4.
LA English

L5 ANSWER 3 OF 3 INVESTEXT COPYRIGHT 2000 TFS

AN 90:469116 INVESTEXT(tm) REPORT NUMBER:1122813
PGNO PAGE 7 OF 10
DN 1122813
TI Biodegradables For Medical Applications - Industry Report
AU Helmus, M.N.
CS ARTHUR D. LITTLE DECISION RESOURCES; MASSACHUSETTS
CSR NEW ENGLAND/NORTHEAST/NORTHEASTERN STS.; UNITED STATES OF AMERICA; NORTH
AMERICA
CSTY Consulting-accounting-research firm
PD 20 Aug 1990
DT INDUSTRY REPORT
FS Text Page; INDUSTRY REPORT
WC 418

=> index bioscience, chemistry

FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
FILE 'PAPERCHEM' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS

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FULL ESTIMATED COST	18.02	28.63

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CA SUBSCRIBER PRICE	0.00	-0.56

INDEX 'ADISALERTS, ADISINSIGHT, AGRICOLA, AIDSLINE, ANABSTR, AQUASCI,
BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO,
CABA,
CANCERLIT, CAPLUS, CEABA, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU,
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=> s esterase? and polyester?

3	FILE AGRICOLA
2	FILE ANABSTR
9	FILE BIOBUSINESS
35	FILE BIOSIS
21	FILE BIOTECHABS
21	FILE BIOTECHDS
25	FILE BIOTECHNO
8	FILE CABA
1	FILE CANCERLIT
116	FILE CAPLUS
9	FILE CEABA
3	FILE CEN
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1	FILE BABS
27	FILE COMPENDEX
1	FILE INSPEC

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15 FILE RAPRA
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1 FILE VTB
8 FILE WSCA

35 FILES HAVE ONE OR MORE ANSWERS, 80 FILES SEARCHED IN STNINDEX

L6 QUE ESTERASE? AND POLYESTER?

=> s esterase? same polyester?

22 FILES SEARCHED...
49 FILES SEARCHED...
61 FILES SEARCHED...

0 FILES HAVE ONE OR MORE ANSWERS, 80 FILES SEARCHED IN STNINDEX

L7 QUE ESTERASE? SAME POLYESTER?